



CITY OF FORT COLLINS JULY 2022 MONTHLY REPORT

AUGUST 12TH, 2022

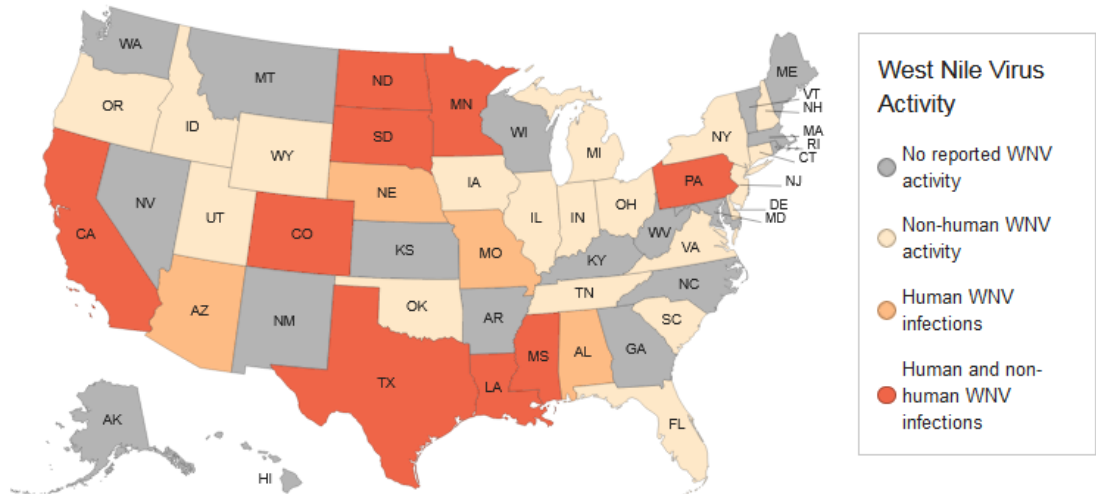
West Nile Virus Risk

Both the Colorado Department of Public Health & Environment (CDPHE) and Colorado State University began testing mosquito samples in Disease Week 23 (June 6th). As of August 9th there have been 5 reported positive human cases in the state of Colorado.

The Centers for Disease Control and Prevention most currently reports human West Nile virus infections in four states. Non-human West Nile virus activity (mosquitoes, birds or sentinel animals) has been reported in five states. While West Nile virus activity remains relatively low, and we have not documented viral activity in Northern Colorado, we are likely to see increased disease risk as the summer progresses and encourage personal protective measures including draining water from your property, avoiding the outdoors at dawn and dusk, defending yourself by wearing repellent and dressing appropriately.

West Nile Virus Activity by State 2022

United States (as of August 9, 2022)



Territories AS GU PR VI MP FM PW MH



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In July 2022 Colorado State University (CSU) tested a total of 655 mosquito samples containing 18,707 mosquitoes. These samples consisted of 14,941 *Cx. tarsalis* and 3,766 *Cx. Papiens* collected from the Fort Collins, Loveland and Berthoud areas.

By comparison, in July 2021 Colorado State University (CSU) tested a total of 880 mosquito samples containing 31,155 mosquitoes. These samples consisted of 25,605 *Cx. tarsalis* and 5,550 *Cx. Papiens* collected from the Fort Collins, Loveland and Berthoud areas.

Wear Your Repellent!

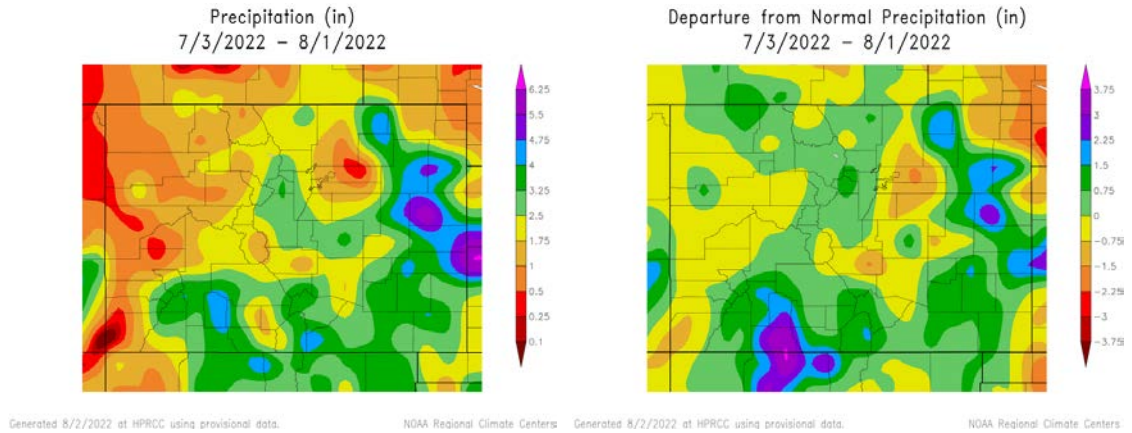
Use approved mosquito repellents containing DEET, picaridin or oil of lemon eucalyptus.

DEET products generally provide the longest protection. The other repellents work but must be applied more frequently.

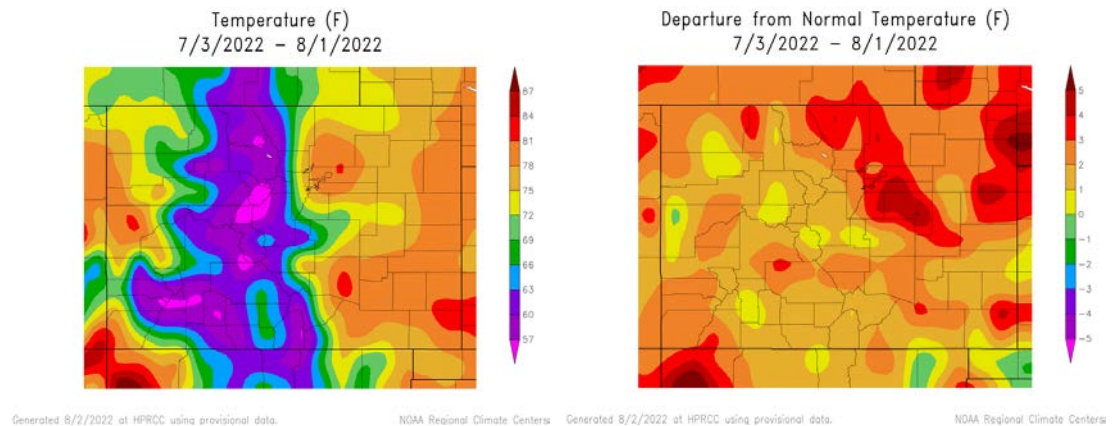
Follow the product label for correct use. Products with 10 percent or less DEET are recommended for children.

Weather

Northern Colorado had a dry spring; however snow pack levels were above or around average, which can lead to standing water once it melts and reaches to Front Range. Similarly, flood irrigation of lands can produce massive numbers of mosquitoes that are capable of flying into municipalities. As we typically see, during the month of July the abundance numbers of Aedes species waned, and Culex species began to rise in large numbers.



July was a hotter than average month in 2022. With temperatures higher on average throughout Northern Colorado. During the month of July, Northern Colorado seen a departure from normal temperatures of a positive 2-4 degrees Fahrenheit.



Larval Control Operations

In July of 2022, VDCI field technicians performed 1,771 site inspections as part of the inspection and larviciding program for Fort Collins. Of those 1,771 site inspections, 1,237 (69.8%) of those were wet and 709 (57.3%) wet sites were producing mosquito larvae. A total of 477.4 acres of land were treated with 2,524.3 lbs of Vectobac (bti) and 7.7 gal of BVA mineral oil to prevent larval mosquitoes from emerging as adults.

During July 2022, VDCI technicians performed site inspections at 19 residences as part of our backyard inspection program. VDCI also performed treatments at approximately 760 stormdrains as part of the City of Fort Collins Urban larviciding program to control larval mosquito populations in storm drains and catch basins. Drains that were wet or had the potential to hold water were treated with long term larvicide products including Altosid pellets, briquettes, and VectoLex WSP (Bsph).

Mosquito Population Surveillance

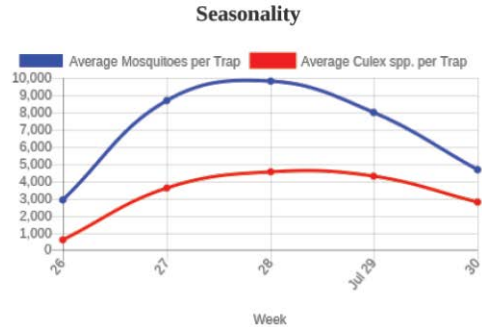
There were 228 traps set in Fort Collins during the month of July 2022. A total of 34,081 mosquitoes were collected. There were 17,082 (50.1%) *Aedes spp.*, 15,866 (46.6%) *Culex spp.* and 131 (0.4%) *Culiseta spp.* mosquitoes collected. On average there were 149.5 mosquitoes collected per night and 69.6 *Culex spp.* mosquitoes per trap night.

2022 Fort Collins Trap Composite Data

Total number of trap/nights set:	228
Total number of mosquitoes collected:	34,081.0
Average mosquitoes per trap/night:	149.5
Average Culex per trap/night:	69.6

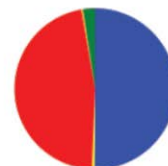
Species collected and abundance:

<i>Aedes cinereus</i>	4.0	0.0%
<i>Aedes dorsalis</i>	1,112.0	3.3%
<i>Aedes hendersoni</i>	1.0	0.0%
<i>Aedes increpitus</i>	1,694.0	5.0%
<i>Aedes melanimon</i>	1,324.0	3.9%
<i>Aedes nigromaculis</i>	3.0	0.0%
<i>Aedes spp.</i>	3.0	0.0%
<i>Aedes trivittatus</i>	16.0	0.0%
<i>Aedes vexans</i>	12,925.0	37.9%
<i>Anopheles freeborni</i>	188.0	0.6%
<i>Coquillettidia perturbans</i>	814.0	2.4%
<i>Culex pipiens</i>	3,995.0	11.7%
<i>Culex salinarius</i>	1.0	0.0%
<i>Culex tarsalis</i>	11,870.0	34.8%
<i>Culiseta inornata</i>	131.0	0.4%



Genus Proportions:

Genus	Number	Percent of Total
<i>Aedes/Ochlerotatus</i>	17,082	50.1%
<i>Anopheles</i>	188	0.6%
<i>Culex</i>	15,866	46.6%
<i>Culiseta</i>	131	0.4%
Other	814	2.4%



Adult Mosquito Control Operations

During the month of July 2022, 81.2 miles of roads were sprayed via ground based vehicles with Ultra Low Volume (ULV) AquaPerm-X mosquito adulticides to reduce adult mosquito populations. Truck based ULV applications were performed to suppress mosquito abundance detected in surveillance traps which surpassed the disease threshold of a VI over 0.75.

Date	Zone	Spray Miles	Ounces Sprayed
7/31/2022	City of Fort Collins - FC3	14.96	535.52
7/31/2022	City of Fort Collins - FC3	14.04	498.33
7/31/2022	City of Fort Collins - FC2	16.21	581.42
7/31/2022	City of Fort Collins - FC2	11.34	413.33
7/31/2022	City of Fort Collins - FC1	12.32	443.67
7/31/2022	City of Fort Collins - FC3	12.35	440.45

Totals	81.22	2912.72
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VDCI has been privately contracted to perform adult mosquito control for Greenstone HOA, Willow Springs HOA, Ridgewood Hills HOA, and Lindenwood HOA during the 2022 season. A total of 19.77 road miles within these neighborhoods were sprayed via ground based vehicles with Ultra Low Volume (ULV) AquaPerm-X mosquito adulticides to reduce adult mosquito populations on the dates listed below.

Date	Zone	Spray Miles	Ounces Sprayed
7/7/2022	LHOA - Greenstone HOA Spray Zone	2.84	100.76
7/7/2022	LHOA - Lindenwood HOA Spray Zone	2.33	83.21
7/13/2022	LHOA - Greenstone HOA Spray Zone	2.27	82.95
7/13/2022	LHOA - Willow Springs Spray Zone	3.47	116.75
7/13/2022	LHOA - Lindenwood HOA Spray Zone	2.43	83.82
7/14/2022	LHOA - Ridgewood Hills Spray Zone	6.87	243.44
7/20/2022	LHOA - Lindenwood HOA Spray Zone	2.31	83.35
7/21/2022	LHOA - Greenstone HOA Spray Zone	2.77	101.63

Totals	25.29	895.91
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Public Relations

VDCI received 9 phone calls from City of Fort Collins residents in June 2022. VDCI received 3 calls from residents reporting larval mosquito sites in their area. VDCI inspected all of the reported sites and added new sites if found producing mosquito larvae and were not already part of our regular inspection program. VDCI received 4 mosquito annoyance calls from residents of the City of Fort Collins, who were requesting information on how the decisions on adulticiding are made. VDCI received 2 phone calls from residents requesting information about the adult mosquito control application that took place on the 31st within the City of Fort Collins. In all calls, VDCI provided the relevant information and if needed, directed them to either our website or the City of Fort Collins' website for further information.